

NODE=M250

 $X_0(2900)$

$I(J^P) = ?(0^+)$

OMITTED FROM SUMMARY TABLE

An exotic state with minimal quark content $\bar{c}d\bar{s}u$. Observed by AAIJ 20AI using full amplitude analysis of $B^+ \rightarrow D^+ D^- K^+$ decays.

NODE=M250

 $X_0(2900)$ MASS

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
2866±7±2	1.2k	¹ AAIJ	20AI LHCb	$B^+ \rightarrow D^+ D^- K^+$

¹ Obtained from the full amplitude analysis. Parameterized with the relativistic Breit-Wigner line shape. Also confirmed by the model-independent analysis of AAIJ 20AF.

NODE=M250M

NODE=M250M

NODE=M250M;LINKAGE=A

 $X_0(2900)$ WIDTH

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
57±12±4	1.2k	¹ AAIJ	20AI LHCb	$B^+ \rightarrow D^+ D^- K^+$

¹ Obtained from the full amplitude analysis. Parameterized with the relativistic Breit-Wigner line shape. Also confirmed by the model-independent analysis of AAIJ 20AF.

NODE=M250W

NODE=M250W

NODE=M250W;LINKAGE=A

 $X_0(2900)$ DECAY MODES

Mode	Fraction (Γ_i/Γ)
$\Gamma_1 D^- K^+$	seen

NODE=M250215;NODE=M250

DESIG=1

 $X_0(2900)$ BRANCHING RATIOS

$\Gamma(D^- K^+)/\Gamma_{\text{total}}$	Γ_1/Γ
seen	AAIJ 20AI LHCb $B^+ \rightarrow D^+ D^- K^+$

NODE=M250225

NODE=M250R01
NODE=M250R01 **$X_0(2900)$ REFERENCES**

AAIJ	20AF PRL 125 242001	R. Aaij <i>et al.</i>	(LHCb Collab.)
AAIJ	20AI PR D102 112003	R. Aaij <i>et al.</i>	(LHCb Collab.)

NODE=M250

REFID=60702

REFID=60739